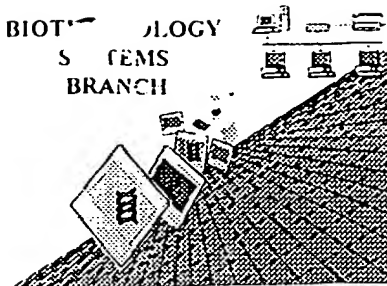


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



04 CO
03-02-01
#70

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/778,187

Source: OIPE

Date Processed by STIC: 3-1-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable-form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/778,187

DATE: 03/01/2001
TIME: 14:59:56

Input Set : A:\2873-US seq.txt
Output Set: N:\CRF3\03012001\I778187.raw

Does Not Comply
Corrected Diskette Needed

See pp. 1, 3

4 <110> APPLICANT: Baum, Peter Robert
5 Fanslow III, William C.
7 <120> TITLE OF INVENTION: Molecules Designated LDCAM
9 <130> FILE REFERENCE: 2873-US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/778,187
12 <141> CURRENT FILING DATE: 2001-02-06
W--> 14 <140> CURRENT APPLICATION NUMBER: PCT/US99/17905
15 <141> CURRENT FILING DATE: 1999-08-05
17 <150> PRIOR APPLICATION NUMBER: 60/095,672
18 <151> PRIOR FILING DATE: 1998-08-07
20 <160> NUMBER OF SEQ ID NOS: 10
22 <170> SOFTWARE: PatentIn Ver. 2.0

There can be only one
current application number
and date. All others
should be under <150>, <151>

ERRORED SEQUENCES

25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1535 → Number of bases differ:
27 <212> TYPE: DNA - 1535 listed
28 <213> ORGANISM: Homo sapien - 1598 shown
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: 16..1341
34 <400> SEQUENCE: 1
36 ggcgcgcgcgc ccgac atg gcg agt gta gtg ctg ccg agc gga tcc cag tgt 51
37 Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys
38 1 5 10
40 gcg gcg gca gcg gcg gcg gcg cct ccc ggg ctc cgg ctc cgg ctt 99
41 Ala Ala Ala Ala Ala Ala Ala Ala Pro Pro Gly Leu Arg Leu Leu
42 15 20 25
44 ctg ctg ttg ctc ttc tcc gcc gcg gca ctg atc ccc aca ggt gat ggg 147
45 Leu Leu Leu Leu Phe Ser Ala Ala Ala Leu Ile Pro Thr Gly Asp Gly
46 30 35 40
48 cag aat ctg ttt acg aaa gac gtg aca gtg atc gag gga gag gtt gcg 195
49 Gln Asn Leu Phe Thr Lys Asp Val Thr Val Ile Glu Gly Glu Val Ala
50 45 50 55 60
52 acc atc agt tgc caa gtc aat aag agt gac gac tct gtg att cag cta 243
53 Thr Ile Ser Cys Gln Val Asn Lys Ser Asp Asp Ser Val Ile Gln Leu
54 65 70 75
56 ctg aat ccc aac agg cag acc att tat ttc agg gac ttc agg cct ttg 291
57 Leu Asn Pro Asn Arg Gln Thr Ile Tyr Phe Arg Asp Phe Arg Pro Leu
58 80 85 90
60 aag gac agc agg ttt cag ttg ctg aat ttt tct agc agt gaa ctc aaa 339
61 Lys Asp Ser Arg Phe Gln Leu Leu Asn Phe Ser Ser Ser Glu Leu Lys
62 95 100 105
64 gta tca ttg aca aac gtc tca att tct gat gaa gga aga tac ttt tgc 387
65 Val Ser Leu Thr Asn Val Ser Ile Ser Asp Glu Gly Arg Tyr Phe Cys

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/778,187

DATE: 03/01/2001

TIME: 14:59:56

Input Set : A:\2873-US seq.txt

Output Set: N:\CRF3\03012001\I778187.raw

66	110	115	120	
68	cag ctc tat acc gat ccc cca cag gaa agt tac acc acc atc aca gtc	435		
69	Gln Leu Tyr Thr Asp Pro Pro Gln Glu Ser Tyr Thr Thr Ile Thr Val			
70	125	130	135	140
72	ctg gtc cca cca cgt aat ctg atg atc gat atc cag aaa gac act gcg	483		
73	Leu Val Pro Pro Arg Asn Leu Met Ile Asp Ile Gln Lys Asp Thr Ala			
74	145	150	155	
76	gtg gaa ggt gag gag att gaa gtc aac tgc act gct atg gcc agc aag	531		
77	Val Glu Gly Glu Glu Ile Glu Val Asn Cys Thr Ala Met Ala Ser Lys			
78	160	165	170	
80	cca gcc acg act atc agg tgg ttc aaa ggg aac aca gag cta aaa ggc	579		
81	Pro Ala Thr Thr Ile Arg Trp Phe Lys Gly Asn Thr Glu Leu Lys Gly			
82	175	180	185	
84	aaa tcg gag gtg gaa gag tgg tca gac atg tac act gtg acc agt cag	627		
85	Lys Ser Glu Val Glu Glu Trp Ser Asp Met Tyr Thr Val Thr Ser Gln			
86	190	195	200	
88	ctg atg ctg aag gtg cac aag gag gac gat ggg gtc cca gtg atc tgc	675		
89	Leu Met Leu Lys Val His Lys Glu Asp Asp Gly Val Pro Val Ile Cys			
90	205	210	215	220
92	cag gtg gag cac cct gcg gtc act gga aac ctg cag acc cag cgg tat	723		
93	Gln Val Glu His Pro Ala Val Thr Gly Asn Leu Gln Thr Gln Arg Tyr			
94	225	230	235	
96	cta gaa gta cag tat aag cct caa gtg cac att cag atg act tat cct	771		
97	Leu Glu Val Gln Tyr Lys Pro Gln Val His Ile Gln Met Thr Tyr Pro			
98	240	245	250	
100	cta caa ggc tta acc cgg gaa ggg gac gcg ctt gag tta aca tgt gaa	819		
101	Leu Gln Gly Leu Thr Arg Glu Gly Asp Ala Leu Glu Leu Thr Cys Glu			
102	255	260	265	
104	gcc atc ggg aag ccc cag cct gtg atg gta act tgg gtg aga gtc gat	867		
105	Ala Ile Gly Lys Pro Gln Pro Val Met Val Thr Trp Val Arg Val Asp			
106	270	275	280	
108	gat gaa atg cct caa cac gcc gta ctg tct ggg ccc aac ctg ttc atc	915		
109	Asp Glu Met Pro Gln His Ala Val Leu Ser Gly Pro Asn Leu Phe Ile			
110	285	290	295	300
112	aat aac cta aac aaa aca gat aat ggt aca tac cgc tgt gaa gct tca	963		
113	Asn Asn Leu Asn Lys Thr Asp Asn Gly Thr Tyr Arg Cys Glu Ala Ser			
114	305	310	315	
116	aac ata gtg ggg aaa gct cac tcg gat tat atg ctg tat gta tac gat	1011		
117	Asn Ile Val Gly Lys Ala His Ser Asp Tyr Met Leu Tyr Val Tyr Asp			
118	320	325	330	
120	ccc ccc aca act atc cct cct ccc aca aca acc acc acc acc acc	1059		
121	Pro Pro Thr Thr Ile Pro Pro Thr Thr Thr Thr Thr Thr Thr			
122	335	340	345	
124	acc acc acc acc acc atc ctt acc atc atc aca gat tcc cga gca ggt	1107		
125	Thr Thr Thr Thr Thr Ile Leu Thr Ile Ile Thr Asp Ser Arg Ala Gly			
126	350	355	360	
128	gaa gaa ggc tcg atc agg gca gtg gat cat gcc gtg atc ggt ggc gtc	1155		
129	Glu Glu Gly Ser Ile Arg Ala Val Asp His Ala Val Ile Gly Gly Val			
130	365	370	375	380

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/778,187

DATE: 03/01/2001

TIME: 14:59:56

Input Set : A:\2873-US seq.txt

Output Set: N:\CRF3\03012001\I778187.raw

```

132 gtg gcg gtg gtg gtg ttc gcc atg ctg tgc ttg ctc atc att ctg ggg 1203
133 Val Ala Val Val Val Phe Ala Met Leu Cys Leu Leu Ile Ile Leu Gly
134                               385                               390                               395
136 cgc tat ttt gcc aga cat aaa ggt aca tac ttc act cat gaa gcc aaa 1251
137 Arg Tyr Phe Ala Arg His Lys Gly Thr Tyr Phe Thr His Glu Ala Lys
138                               400                               405                               410
140 gga gcc gat gac gca gca gac gca gac aca gct ata atc aat gca gaa 1299
141 Gly Ala Asp Asp Ala Ala Asp Ala Asp Thr Ala Ile Ile Asn Ala Glu
142                               415                               420                               425
144 gga gga cag aac aac tcc gaa gaa aag aaa gag tac ttc atc 1341
145 Gly Gly Gln Asn Asn Ser Glu Glu Lys Lys Glu Tyr Phe Ile
146                               430                               435                               440
148 tagatcagcc tttttgtttc aatgaggtgt ccaactggcc ctatttagat gataaagaga 1401
150 cagtgatatt ggaacttgcg agaaattcgt gtgttttttt atgaatgggt ggaaagggtgt 1461
152 gagactggga aggcttgga tttgctgtgt aaaaaaaaaa aaaaaatgtt ctttggaag 1521
154 aaaaaagcgg ccgctttctt attctatttc aacattcagc ttaatcataa tcctaaaatc 1581
E--> 156 atacatgcta ttccat 1598
484 <210> SEQ ID NO: 5
485 <211> LENGTH: 29
E--> 486 <212> TYPE: Oligonucleotide
487 <213> ORGANISM: Homo sapien
489 <400> SEQUENCE: 5
491 tatgtcgaca tggcgagtgt agtgctgcc 29
494 <210> SEQ ID NO: 6
495 <211> LENGTH: 30
E--> 496 <212> TYPE: Oligonucleotide
497 <213> ORGANISM: Homo sapien
499 <400> SEQUENCE: 6
501 atatagatct atgatccact gccctgatcg 30

```

Non-valid response for <212>

Valid responses are:

- DNA
- RNA
- PRT (Protein)

VERIFICATION SUMMARY

DATE: 03/01/2001

PATENT APPLICATION: US/09/778,187

TIME: 14:59:58

Input Set : A:\2873-US seq.txt

Output Set: N:\CRF3\03012001\I778187.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:280 W: Numeric Identifier already exists, <140> found multiple times
L:14 M:281 W: Numeric Fields not Ordered, <140> not ordered!
L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:280 W: Numeric Identifier already exists, <141> found multiple times
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:156 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1535 Found:1598 SEQ:1
L:486 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:496 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: